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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 2849**
Mitsuaki OSHIMA : Docket No. 2000_1727
Serial No. 09/740,068 : Group Art Unit 2615
Filed December 20, 2000 : Examiner R. Chevalier
COMMUNICATION SYSTEM :

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975.

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentee requests consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application
PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. ☐ a full or partial English language translation submitted herewith,
- b. ☐ a foreign patent office search report (in the English language) submitted herewith,
- c. ☐ the concise explanation contained in the specification of the present application at page,
- d. ☒ the concise explanation set forth in the attached English language abstract,
- e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:

JP 5-327807 corresponds to JP 3-62798, JP 3-95813, JP 3-155650, JP 3-182236 and JP 4-60739.

JP 7-264148 corresponds to JP 6-79668.

JP 7-322219 corresponds to JP 5-132984, JP 5-261612 and JP 5-349972.

5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA

By: 

Jeffrey R. Elipek

Registration No. 41,471

Attorney for Patentee

JRF/pth
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
March 23, 2005

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: March 23, 2005

ATTY DOCKET NO.
2000_1727SERIAL NO.
09/740,068APPLICANT
Mitsuaki OSHIMAFILING DATE
December 20, 2000GROUP
2615

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|----------|------------------|-------|----------|-------------------------------|
| | AA | 3,824,548 | 7-16-74 | Sullivan et al. | | | |
| | AB | 3,959,726 | 5-25-76 | Hinoshita et al. | | | |
| | AC | 4,303,939 | 12-1-81 | Stephens et al. | | | |
| | AD | 4,303,941 | 12-1-81 | Marti et al. | | | |
| | AE | 4,309,726 | 1-5-82 | Tanaka et al. | | | |
| | AF | 4,535,352 | 8-85 | Haskell | | | |
| | AG | 4,564,858 | 1-14-86 | Resch | | | |
| | AH | 4,581,639 | 4-8-86 | Judge | | | |
| | AI | 4,769,819 | 9-6-88 | Matsutani et al. | | | |
| | AJ | 4,794,447 | 12-27-88 | Tsinberg | | | |
| | AK | 4,800,426 | 1-24-89 | Glenn | | | |
| | AL | 4,817,192 | 3-28-89 | Phillips et al. | | | |
| | AM | 5,007,088 | 4-9-91 | Ooi et al. | | | |
| | AN | 5,029,003 | 7-91 | Jonnalagadda | | | |
| | AO | 5,134,464 | 7-28-92 | Basile et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|--|----|--------------------|--------|---------|-------|----------|-----------------------|
| | AP | 3-48587 | 3-1-91 | Japan | | | abstract |

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|------------------------------------------------------------------------------------------------|
| AQ | Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991 |
| AR | Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991 |

EXAMINER

DATE CONSIDERED

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|----------------------|----|--------------------|----------|--------------|-------|----------|-------------------------------|
| | AA | 5,181,112 | 1-19-93 | Citta et al. | | | |
| | AB | 5,214,656 | 5-25-93 | Chung et al. | | | |
| | AC | 5,218,622 | 6-8-93 | Fazel et al. | | | |
| | AD | 5,377,051 | 12-27-94 | Lane et al. | | | |
| | AE | 5,400,084 | 3-21-95 | Scarpa | | | |
| | AF | 5,561,468 | 10-1-96 | Bryan et al. | | | |
| | AG | 5,576,902 | 11-19-96 | Lane et al. | | | |
| | AH | 5,598,220 | 1-97 | Citta et al. | | | |
| | AI | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO | |
|--|----|--------------------|----------|---------|-------|----------|-----------------------|--|
| | AJ | 5-327807 | 12-10-93 | Japan | | | abstract | |
| | AK | 7-264148 | 10-13-95 | Japan | | | abstract | |
| | AL | 7-322219 | 12-8-95 | Japan | | | abstract | |
| | AM | | | | | | | |
| | AN | | | | | | | |

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|----|--|
| | AO | |
| | AP | |
| | AQ | |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.